

Report Date: 1/4/2019

Bedrock Aquifer Evaluation Determination Tool

Denver Basin Aquifer - Specific Location Determination Tool

Applicant: PDC - Zahourek 21-31
(API 123-27285)

Reciept No:

Evaluated By:

Location: NE 1/4 of NW 1/4 of Sec. 31, T.7N, R.63W. (670 NSL, 1790 WSL)

Basin Designation:

Ground Surface Elevation: 4780 Feet **Number of Acres:** 160

Aquifer	Elevation (ft)		Net Sand	DEPTH (ft)		ANNUAL APRPROP. (A-F)	STATUS
	Bot	Top		Bot	Top		
Upper Dawson							
Lower Dawson							
Denver							
Upper Arapahoe							
Lower Arapahoe							
Laramie-Fox Hills							

Plug and Abandon Surface Casing Check

Operator	PDC						
API or Doc #	Zahourek 21-31 (API 123-272285)						
SB5 Base of Fox Hills	NA	L-FH		This well GR	WW GR	Elev Diff	
Deepest Water Well Within One Mile / number of wells	425	/	35	4780	4770	10	
Deepest Water Well Within Two Miles / number of wells		/					
Sussex / Shannon Production within one mile	N	/	N				
Operator Existing Surface Casing Depth	541						
Production Casing to be pulled	0						
Required aquifer protection depth in this well	425	10	50	485			

Water Wells Selected From Map
Filter Results by Depth

425

320

405

35

WELL DESCRIPTION	LOCATION	WELL INFORMATION			
		Depth	Top Perf	Bottom Perf	Aquifer
Receipt=3662564, Permit=293359--- DILKA LAILA JANE	NENW 6 6.0 N -63.0 W	0	0	0	ALL UNNAMED AQUIFERS
Receipt=0035983, Permit=217086--- DILKA, JOHN	NENW 6 6.0 N -63.0 W	300	0	0	LARAMIE FOX HILLS
Receipt=0443907B, Permit=217086--A-- DILKA, JOHN	NENW 6 6.0 N -63.0 W	0	0	0	LARAMIE FOX HILLS
Receipt=3659960, Permit=291686--- DILKA LAILA JANE	NWNW 6 6.0 N -63.0 W	0	0	0	ALL UNNAMED AQUIFERS
Receipt=3662546, Permit=217086--A-- DILKA LAILA JANE	NWNW 6 6.0 N -63.0 W	370	270	370	ALL UNNAMED AQUIFERS
Receipt=0006412, Permit=2109-AD-- BAKER, JOHN P	NWNW 6 6.0 N -63.0 W	0	0	0	ALL UNNAMED AQUIFERS
Receipt=0488870A, Permit=240330--- MENDOZA, FRANCISCO	NWSW 29 7.0 N -63.0 W	0	0	0	ALL UNNAMED AQUIFERS
Receipt=0441350, Permit=216725--- JACKSON JERRY M & GAIL O	SWSW 29 7.0 N -63.0 W	300	250	290	ALL UNNAMED AQUIFERS
Receipt=3679081B, Permit=305113--- KINDSFATHER, MIKE	SENE 30 7.0 N -63.0 W	360	0	0	ALL UNNAMED AQUIFERS
Receipt=3679081A, Permit=305112--- FRIIS-HANSEN, ELAINA M.	SWNE 30 7.0 N -63.0 W	360	0	0	ALL UNNAMED AQUIFERS
Receipt=3679081A, Permit=305112--- FRIIS-HANSEN, CHARLES F.	SWNE 30 7.0 N -63.0 W	360	0	0	ALL UNNAMED AQUIFERS
Receipt=0431765, Permit=211555--- MORAN, KARL	SWNE 30 7.0 N -63.0 W	0	0	0	ALL UNNAMED AQUIFERS
Receipt=3617469, Permit=274357--- MORAN, KARL	SWNE 30 7.0 N -63.0 W	0	0	0	ALL UNNAMED AQUIFERS
Receipt=0504673A, Permit=247373--- WILSON, LINDSEY	NWNW 30 7.0 N -63.0 W	220	0	0	ALL UNNAMED AQUIFERS
Receipt=0504673B, Permit=247373--A-- WILSON RODNEY D & ROBERT P	NWNW 30 7.0 N -63.0 W	405	320	405	ALL UNNAMED AQUIFERS
Receipt=0478741, Permit=235797--- KIMSEY RICHARD & TRACY	NESE 30 7.0 N -63.0 W	0	0	0	ALL UNNAMED AQUIFERS
Receipt=0467958, Permit=229852--- KIMSEY RICHARD & TRACY	NWSE 30 7.0 N -63.0 W	400	220	400	ALL UNNAMED AQUIFERS
Receipt=0459123, Permit=225846--- KELLY RICHARD E & SHEILA R	SESE 30 7.0 N -63.0 W	240	190	230	ALL UNNAMED AQUIFERS
Receipt=0461182, Permit=209270--A-- PETERSON ROCKY & SUSAN	NENE 31 7.0 N -63.0 W	425	289	399	ALL UNNAMED AQUIFERS
Receipt=0427798C, Permit=209270--- PETERSON ROCKKY C & SUSAN M	NENE 31 7.0 N -63.0 W	300	250	290	ALL UNNAMED AQUIFERS
Receipt=0427798D, Permit=209267--- MOORE JAMES G & CANDANCE D	SENE 31 7.0 N -63.0 W	300	259	290	ALL UNNAMED AQUIFERS
Receipt=0504307, Permit=249734--- SPAUR BROTHERS FARMS LLC	NENW 31 7.0 N -63.0 W	300	220	300	ALL UNNAMED AQUIFERS
Receipt=0475938, Permit=236419--- ZAHOUREK CONSERVATORY LLC	SENE 31 7.0 N -63.0 W	0	0	0	ALL UNNAMED AQUIFERS
Receipt=3658394, Permit=290257--- ZAHOUREK CONSERVATORY LLC	SENE 31 7.0 N -63.0 W	0	0	0	ALL UNNAMED AQUIFERS

SPAUR BROTHERS	7.0 N -63.0 W			
Receipt=2013011, Permit=2013011-AB--	SWNW 31	0	0	0 ALL UNNAMED AQUIFERS
SPAUR BROTHERS FARM LLC	7.0 N -63.0 W			
Receipt=3604758, Permit=269438---	NWNW 32	260	140	260 ALL UNNAMED AQUIFERS
ROTHE, KEVIN	7.0 N -63.0 W			
Receipt=3600608, Permit=267757---	SWNW 32	220	150	210 LARAMIE FOX HILLS
PERINO, VALERIE	7.0 N -63.0 W			
Receipt=0432538, Permit=212078---	NWSW 32	343	133	303 ALL UNNAMED AQUIFERS
FAULK DAMON K & ANGELA S	7.0 N -63.0 W			
Receipt=C620420, Permit=420-WCB--	SESE 25	78	0	0 ALL UNNAMED AQUIFERS
CLARK, VINCEL	7.0 N -64.0 W			
Receipt=0450239A, Permit=221332---	NENE 36	0	0	0 ALL UNNAMED AQUIFERS
MOODY, J G	7.0 N -64.0 W			
Receipt=0450239B, Permit=220946---	SWNE 36	390	310	390 ALL UNNAMED AQUIFERS
MOODY, JG	7.0 N -64.0 W			
Receipt=0539484A, Permit=264029---	SWNE 36	390	310	390 ALL UNNAMED AQUIFERS
SPAUR BROTHER FARMS LLC	7.0 N -64.0 W			
Receipt=0539484B, Permit=264030---	SESE 36	325	190	325 ALL UNNAMED AQUIFERS
DOLT RONALD A & PATRICIA A	7.0 N -64.0 W			
Receipt=0500258, Permit=245546---	SESE 36	0	0	0 ALL UNNAMED AQUIFERS
MOODY, J	7.0 N -64.0 W			
Receipt=0427798B, Permit=209271---	SESE 36	0	0	0 ALL UNNAMED AQUIFERS
MOODY, J	7.0 N -64.0 W			

Oil and Gas Wells Selected

Filter Results by Formation

WELL DESCRIPTION	LOCATION ID	LOCATION	WELL INFORMATION	Formation	Top	Bottom	TD	Status
05-123-23900, WILSON 12-30 PDC ENERGY INC	306039	SWNW 30 7N -63W (6) 40.546310, -104.486670	Sidetrack	0 CODL	6970	6980	7176	PR
05-123-23901, WILSON 21-30 PDC ENERGY INC	306040	NENW 30 7N -63W (6) 40.550060, -104.482080	Sidetrack	0 CODL	6964	6974	7171	PR
05-123-23902, WILSON 22-30 PDC ENERGY INC	306041	SENW 30 7N -63W (6) 40.546420, -104.482080	Sidetrack	0 CODL	6986	6996	7204	PR
05-123-23903, WILSON 14-30 PDC ENERGY INC	306042	SWSW 30 7N -63W (6) 40.539060, -104.486750	Sidetrack	0 CODL	6938	6946	7177	PR
05-123-23904, WILSON 24-30 PDC ENERGY INC	306043	SESW 30 7N -63W (6) 40.539250, -104.482030	Sidetrack	0 CODL	6970	6980	7148	PR
05-123-23924, WILSON 23-30 PDC ENERGY INC	306057	NESW 30 7N -63W (6) 40.542890, -104.482060	Sidetrack	0 NB-CD 0 NBRR 0 CODL	6705 6705 6982	6992 6820 6992	7181 7181 7181	PR CM CM
05-123-23925, WILSON 13-30 PDC ENERGY INC	306058	NWSW 30 7N -63W (6) 40.542720, -104.486580	Sidetrack	0 CODL	6960	6970	7173	PR
05-123-26219, MORAN 30-14 NOBLE ENERGY INC	310315	SENE 30 7N -63W (6) 40.547170, -104.472720	Sidetrack	0 CODL	6828	6838	7160	SI
05-123-26220, MORAN 30-13 NOBLE ENERGY INC	310316	SWNE 30 7N -63W (6) 40.546580, -104.477460	Sidetrack	Formation	Top	Bottom	TD	Status AL
05-123-33024, Wilson 24-30H PDC ENERGY INC	421713	SESW 30 7N -63W (6) 40.537805, -104.484350	Sidetrack	0 NBRR	7201	11312	11312	PR
05-123-24928, HEINZE 31-34 GREAT WESTERN OPERATING COMPANY LLC	306569	SWSE 31 7N -63W (6) 40.524640, -104.476940	Sidetrack	0 NB-CD 0 NBRR 0 CODL	6614 6614 6894	6748 6748 6905	7138 7138 7138	SI CM CM
05-123-24929, HEINZE 31-44 GREAT WESTERN OPERATING COMPANY LLC	306570	SESE 31 7N -63W (6) 40.524860, -104.472330	Sidetrack	0 NB-CD 0 NBRR 0 CODL	6604 6604 6894	6904 6736 6904	7073 7073 7073	PR CM CM
05-123-27283, ZAHOUREK 31-31 PDC ENERGY INC	302166	NWNE 31 7N -63W (6) 40.535670, -104.476690	Sidetrack	0 CODL	6975	6983	7174	AB
05-123-27284, ZAHOUREK 11-31 PDC ENERGY INC	302167	NWNW 31 7N -63W (6) 40.535670, -104.486110	Sidetrack	0 CODL	6953	6961	7140	SI
05-123-27285, ZAHOUREK 21-31 PDC ENERGY INC	302168	NENW 31 7N -63W (6) 40.535610, -104.482690	Sidetrack	0 CODL	6962	6972	7173	SI
05-123-27286, ZAHOUREK 32-31 PDC ENERGY INC	302169	SWNE 31 7N -63W (6) 40.532500, -104.476690	Sidetrack	0 CODL	6954	6962	7137	SI
05-123-27287, ZAHOUREK 41-31 PDC ENERGY INC	302170	NENE 31 7N -63W (6) 40.535140, -104.473360	Sidetrack	0 CODL	6945	6953	7146	AB
05-123-27288, ZAHOUREK 22-31 PDC ENERGY INC	302171	SENW 31 7N -63W (6) 40.532390, -104.482610	Sidetrack	0 CODL	6931	6941	7141	SI
05-123-27289, ZAHOUREK 42-31 PDC ENERGY INC	302172	SENE 31 7N -63W (6) 40.532580, -104.473390	Sidetrack	0 CODL	6940	6948	7146	SI
05-123-27302, ZAHOUREK 12-31 PDC ENERGY INC	302176	SWNW 31 7N -63W (6) 40.531830, -104.486640	Sidetrack	0 CODL	6940	6950	7146	SI
05-123-29728, HEINZE 31-33 GREAT WESTERN OPERATING COMPANY LLC	302747	NWSE 31 7N -63W (6) 40.528330, -104.477140	Sidetrack	0 NB-CD 0 NBRR 0 CODL	6628 6628 6920	6930 6762 6930	7087 7087 7087	SI CM CM
05-123-29743, Heinze 31-53 GREAT WESTERN OPERATING COMPANY LLC	302759	SWSW 31 7N -63W (6) 40.526370, -104.484260	Sidetrack	Formation	Top	Bottom	TD	Status AL
05-123-29744, Heinze 31-54 GREAT WESTERN OPERATING COMPANY LLC	302760	SESE 31 7N -63W (6) 40.526470, -104.474800	Sidetrack	Formation	Top	Bottom	TD	Status AL
05-123-29745, HEINZE 31-14 GREAT WESTERN OPERATING COMPANY LLC	302761	SWSW 31 7N -63W (6) 40.524160, -104.485840	Sidetrack	Formation	Top	Bottom	TD	Status AL

05-123-29746, HEINZE 31-43 GREAT WESTERN OPERATING COMPANY LLC	302762 NESE 31 7N -63W (6) 40.528170, -104.472560	Sidetrack	Formation 0 NB-CD 0 NBRR 0 CODL	Top 6635 6635 6918	Bottom 6926 6770 6926	TD 7090 7090 7090	Status PR CM CM
05-123-29757, HEINZE 31-13 GREAT WESTERN OPERATING COMPANY LLC	302763 NWSW 31 7N -63W (6) 40.528060, -104.486810	Sidetrack	Formation 0 NB-CD 0 NBRR 0 CODL	Top 6632 6632 6923	Bottom 6934 6766 6934	TD 7118 7118 7118	Status SI CM CM
05-123-29758, HEINZE 31-23 GREAT WESTERN OPERATING COMPANY LLC	302764 NESW 31 7N -63W (6) 40.528250, -104.482170	Sidetrack	Formation 0 NB-CD 0 NBRR 0 CODL	Top 6623 6623 6912	Bottom 6922 6752 6922	TD 7082 7082 7082	Status SI CM CM
05-123-29759, HEINZE 31-24 GREAT WESTERN OPERATING COMPANY LLC	302765 SESW 31 7N -63W (6) 40.524640, -104.481780	Sidetrack	Formation 0 NB-CD 0 NBRR 0 CODL	Top 6614 6614 6898	Bottom 6908 6746 6908	TD 7096 7096 7096	Status SI CM CM
05-123-32191, HEINZE 31-14 GREAT WESTERN OPERATING COMPANY LLC	302765 SESW 31 7N -63W (6) 40.524640, -104.481860	Sidetrack	Formation 0 NB-CD 0 NBRR 0 CODL	Top 6830 6830 7106	Bottom 7118 6952 7118	TD 7282 7282 7282	Status SI CM CM
05-123-34596, SPAUR 31V-204 PDC ENERGY INC	426149 NENE 31 7N -63W (6) 40.534040, -104.471230	Sidetrack	Formation 0 N-COM	Top	Bottom	TD	Status SI
05-123-35445, Spaur 31V-214 PDC ENERGY INC	426149 NENE 31 7N -63W (6) 40.534130, -104.471230	Sidetrack	Formation 0 N-COM	Top	Bottom	TD	Status PR
05-123-35446, Spaur 31W-214 PDC ENERGY INC	426149 NENE 31 7N -63W (6) 40.533880, -104.471230	Sidetrack	Formation 0 N-COM 0 N-COM1	Top	Bottom	TD	Status CM CM
05-123-35546, Spaur 31V-404 PDC ENERGY INC	426149 NENE 31 7N -63W (6) 40.533960, -104.471230	Sidetrack	Formation 0 N-COM	Top	Bottom	TD	Status CM
05-123-38693, Spaur Brothers EH 31-222HN GREAT WESTERN OPERATING COMPANY LLC	435635 NESE 31 7N -63W (6) 40.529600, -104.471103	Sidetrack	Formation 0 N-COM	Top	Bottom	TD	Status PR
05-123-38694, Spaur Brothers EH 31-259HC GREAT WESTERN OPERATING COMPANY LLC	435635 NESE 31 7N -63W (6) 40.529519, -104.471103	Sidetrack	Formation 0 N-COM	Top	Bottom	TD	Status SI
05-123-38695, Spaur Brothers EH 31-219HN GREAT WESTERN OPERATING COMPANY LLC	435635 NESE 31 7N -63W (6) 40.529683, -104.471103	Sidetrack	Formation 0 N-COM	Top	Bottom	TD	Status PR
05-123-38696, Spaur Brothers EH 31-262HN GREAT WESTERN OPERATING COMPANY LLC	435635 NESE 31 7N -63W (6) 40.529436, -104.471103	Sidetrack	Formation 0 N-COM	Top	Bottom	TD	Status PR
05-123-24018, CBO 13-32 PDC ENERGY INC	306123 NWSW 32 7N -63W (6) 40.528360, -104.467250	Sidetrack	Formation 0 CODL	Top 6876	Bottom 6884	TD 7062	Status AB
05-123-24019, CBO 21-32 PDC ENERGY INC	306124 NENW 32 7N -63W (6) 40.535170, -104.463830	Sidetrack	Formation 0 CODL	Top 6882	Bottom 6890	TD 7094	Status SI
05-123-24020, CBO 12-32 PDC ENERGY INC	306125 SWNW 32 7N -63W (6) 40.531500, -104.467920	Sidetrack	Formation 0 CODL	Top 6893	Bottom 6901	TD 7094	Status AB
05-123-24082, CBO 11-32 PDC ENERGY INC	306156 NWNW 32 7N -63W (6) 40.535690, -104.467280	Sidetrack	Formation 0 CODL	Top 6895	Bottom 6903	TD 7094	Status SI
05-123-30150, AURORA USX AB 25-10P NOBLE ENERGY INC	410102 NWSE 25 7N -64W (6) 40.542544, -104.496466	Sidetrack	Formation 0 NB-CD 0 NBRR 0 CODL	Top 6686 6686 6980	Bottom 6991 6824 6991	TD 7170 7170 7170	Status SI CM CM
05-123-30151, AURORA USX AB 25-16P NOBLE ENERGY INC	410103 SESE 25 7N -64W (6) 40.539084, -104.491619	Sidetrack	Formation 0 NB-CD 0 NBRR 0 CODL	Top 6670 6670 6967	Bottom 6979 6812 6979	TD 7123 7123 7123	Status SI CM CM
05-123-24805, STATE THOLEN 36-44 NOBLE ENERGY INC	306506 SESE 36 7N -64W (6) 40.524420, -104.490440	Sidetrack	Formation 0 NB-CD 0 NBRR 0 CODL	Top 6658 6658 6948	Bottom 6958 6792 6958	TD 7147 7147 7147	Status PR CM CM