

FISCHER-MARK FEDERAL B 5 WELLBORE DISTANCES	
SHL TO TOP	283'
TOP TO BHL PILOT	527'
TOP TO BHL LATERAL 1	3,397'
TOP TO BHL LATERAL 1 ST 1	3,349'

FISCHER-MARK FEDERAL B 5	CSZ NAD'83	NAD'83	TIES	ELEVATION
PROPOSED SURFACE HOLE LOCATION (SHL)	N (Y) = 1,214,702.34' E (X) = 2,409,773.11'	LAT. = 37.23871940°N LON. = 107.52761736°W	FSL = 987' FEL = 1013'	EXISTING GROUND 7184.13'
PROPOSED TOP OF PRODUCTION (TOP) PILOT, LATERAL 1, AND LATERAL 1 ST 1	N (Y) = 1,214,979.26' E (X) = 2,409,716.92'	LAT. = 37.23947641°N LON. = 107.52783097°W	FSL = 1262' FEL = 1076'	PROPOSED GRADE 7184.71'
PROPOSED BOTTOM HOLE LOCATION (BHL) PILOT	N (Y) = 1,215,495.73' E (X) = 2,409,612.13'	LAT. = 37.24088826°N LON. = 107.52822937°W	FSL = 1775' FEL = 1194'	
PROPOSED BOTTOM HOLE LOCATION (BHL) LATERAL 1	N (Y) = 1,218,308.08' E (X) = 2,409,041.80'	LAT. = 37.24857624°N LON. = 107.53039805°W	FNL = 710' FEL = 1830'	
PROPOSED BOTTOM HOLE LOCATION (BHL) LATERAL 1 ST 1	N (Y) = 1,218,284.44' E (X) = 2,410,061.93'	LAT. = 37.24857217°N LON. = 107.52689246°W	FNL = 710' FEL = 810'	

SURVEY NOTES

1. BEARING BASIS FOR THIS SURVEY IS BASED ON THE NORTH AMERICAN DATUM OF 1983, COLORADO STATE PLANE COORDINATE SYSTEM, COLORADO SOUTH, ZONE 0503.
2. ELEVATION BASIS FOR THIS SURVEY IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (GEOID12A).
3. SURVEYED IN THE FIELD ON 11/11/2016.
4. BEARINGS AND DISTANCE SHOWN ARE MEASURED IN THE FIELD UNLESS OTHERWISE NOTED.
5. ALL MEASURED DISTANCES SHOWN ARE GRID USING A COMBINED SCALE FACTOR 0.99965871.
6. GPS INSTRUMENT OPERATOR: KENNETH E. REA
7. GPS PDOP VALUE: 2.1

SURVEYOR'S CERTIFICATE

I, ROBERT L. TRUDEAUX, A PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO, DO HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM AN ACTUAL SURVEY PERFORMED BY ME OR UNDER MY DIRECT RESPONSIBILITY, SUPERVISION AND CHECKING, AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF BASED ON THE STANDARDS OF CARE OF PROFESSIONAL LAND SURVEYORS PRACTICING IN THE STATE OF COLORADO. THIS DOES NOT REPRESENT A LAND SURVEY PLAT, IMPROVEMENT SURVEY PLAT, OR MONUMENTED LAND SURVEY AS DEFINED BY COLORADO REVISED STATUTES 38-51-102 AND CANNOT BE RELIED UPON TO DETERMINE OWNERSHIP. THIS SURVEY IS NOT A GUARANTY OR WARRANTY, EITHER EXPRESSED OR IMPLIED.



 bp	BP AMERICA PRODUCTION COMPANY US LOWER 48 ONSHORE
WELL LOCATION PLAT	
FISCHER-MARK FEDERAL B 5 PART OF SECTION 04, TOWNSHIP 34N, RANGE 06W, N.M.P.M. LA PLATA COUNTY, COLORADO	

DRAWN BY CFW/RLM	CHECKED BY RLT	SCALE N/A	DATE 03/09/2017	SHEET 2 OF 2	REVISION
---------------------	-------------------	--------------	--------------------	-----------------	----------