

DALEY LAND SURVEYING, INC.

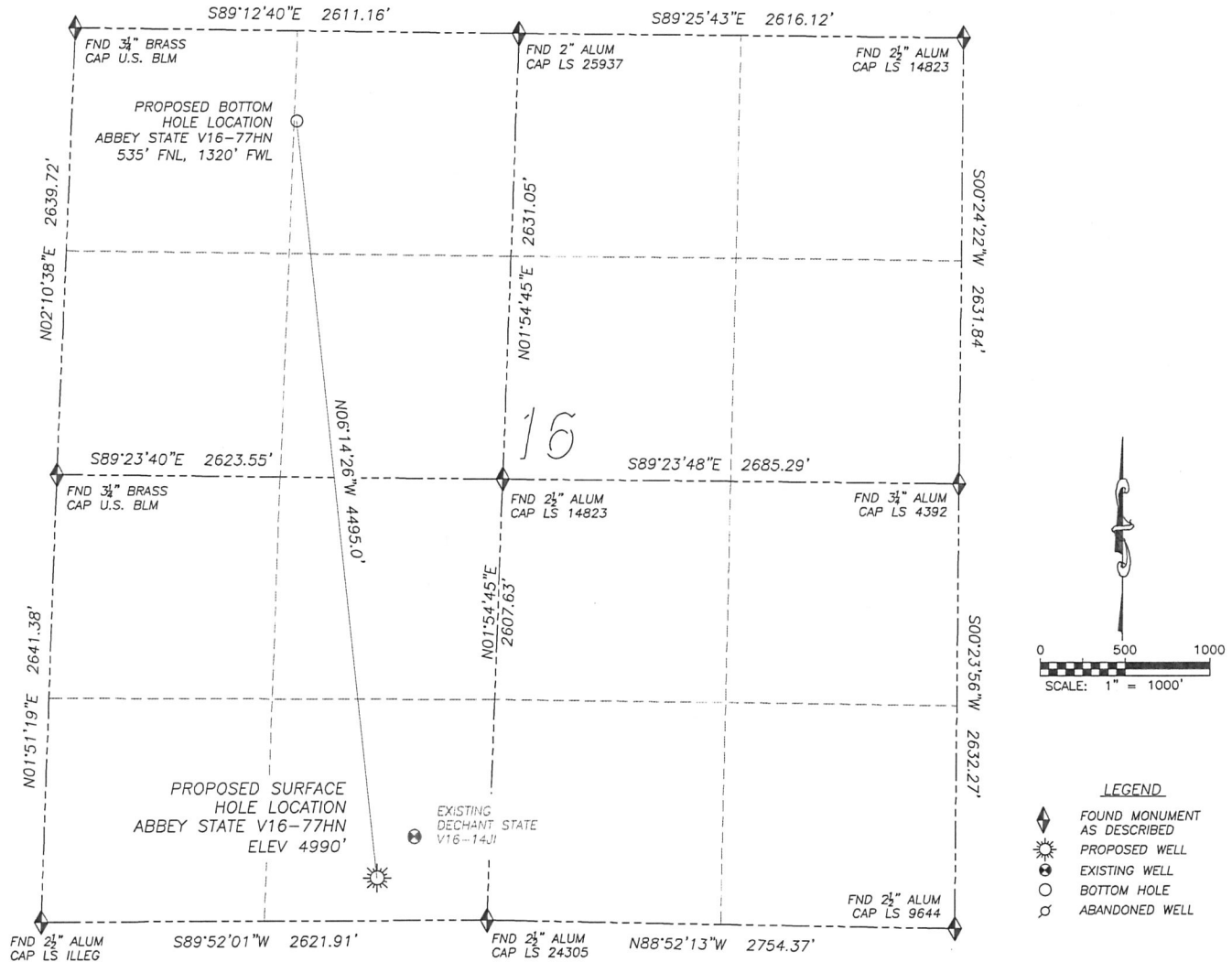
PARKER, CO. 80134

303 953 9841

WELL LOCATION CERTIFICATE

ABBEY STATE V16-77HN

SECTION 16, TOWNSHIP 2 NORTH, RANGE 67 WEST OF THE 6TH PRINCIPAL MERIDIAN



- LEGEND**
- ◆ FOUND MONUMENT AS DESCRIBED
 - ☼ PROPOSED WELL
 - ⊙ EXISTING WELL
 - BOTTOM HOLE
 - ⊘ ABANDONED WELL

NAD 83 LATITUDE AND LONGITUDE

ABBEY STATE V16-77HN

SURFACE HOLE:

LATITUDE: N40.13187°

LONGITUDE: W104.89824°

ELEVATION: 4990'

FOOTAGE: 252' FSL, 1965' FWL

PDOP: 1.9

QTR/QTR: SE4/SW4

PROP LINE: 222± SOUTH

BOTTOM HOLE:

LATITUDE: N40.14413°

LONGITUDE: W104.90000°

FOOTAGE: 535' FNL, 1320' FWL

NEAREST EXISTING WELL:

DECHANT STATE V16-14J SURFACE HOLE

LATITUDE: N40.13254°

LONGITUDE: W104.89746°

ELEVATION: 4990'

327' NORTHEAST

IN ACCORDANCE WITH A REQUEST FROM NATE McCORKELL OF NOBLE ENERGY INC., DALEY LAND SURVEYING, INC. HAS DETERMINED THE SURFACE LOCATION OF THE ABBEY STATE V16-77HN WELL TO BE 252' FSL, 1965' FWL, AS MEASURED AT NINETY (90) DEGREES FROM THE SECTION LINES OF SECTION 16, TOWNSHIP 2 NORTH, RANGE 67 WEST OF THE 6TH PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO. THE BOTTOM HOLE LOCATION, PROVIDED BY THE CLIENT, IS TO BE 535' FNL, 1320' FWL.

I HEREBY CERTIFY THAT THIS WELL LOCATION CERTIFICATE WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, THAT THE WORK WAS COMPLETED ON 5/06/2011 FOR AND ON BEHALF OF NOBLE ENERGY, INC., AND THAT THIS MAP DOES NOT REPRESENT A BOUNDARY SURVEY, IT IS NOT A LAND SURVEY PLAT OR AN IMPROVEMENT SURVEY PLAT AND IT IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OF FENCE, BUILDING OR OTHER FUTURE IMPROVEMENT LINES.

NOTES:

- 1) BEARINGS FOR THIS MAP ARE ASSUMED AND BASED UPON GPS OBSERVATIONS MADE BETWEEN MONUMENTS LOCATED AT THE SOUTHWEST CORNER AND WEST QUARTER CORNER OF SECTION 16, T.2N., R.67W.
- 2) HORIZONTAL DATUM IS NAD83.
- 3) VERTICAL DATUM IS NAVD88. ELEVATIONS ARE DERIVED FROM GPS OBSERVATIONS PROCESSED THROUGH OPUS, UTILIZING THE GEOID03 MODEL.
- 4) SEE LOCATION DRAWING FOR VISIBLE IMPROVEMENTS WITHIN 600' OF PROPOSED SURFACE HOLE LOCATION.
- 5) SURFACE USE: PASTURE.

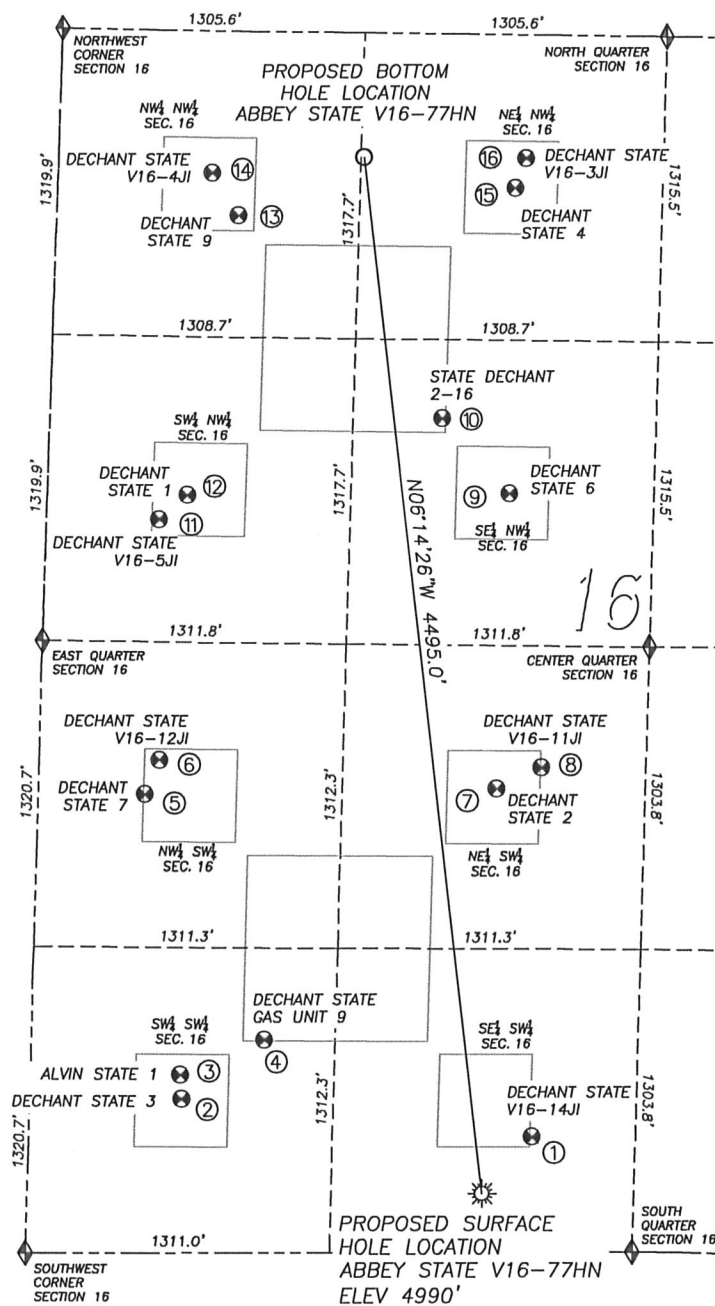
NOTICE: According to Colorado law you MUST commence any legal action based upon any defect in this W.L.C. within three years after you first discover such defect. In no event may any action based upon any such defect in this W.L.C. be commenced more than ten years from the date of the certification shown herein.



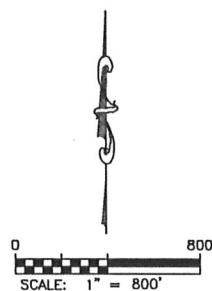
FOR AND ON BEHALF OF
DALEY LAND SURVEYING INC.,
Robert Daley, PLS 35597

SITE SKETCH ABBEY STATE V16-77HN

SECTION 16, TOWNSHIP 2 NORTH, RANGE 67 WEST OF THE 6TH P.M.



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|--|--|---|--|
| ①
DECHANT STATE V16-14JI
SE/SW SEC. 16
495' FSL, 2175' FWL
LAT. N40.13254'
LONG. W104.89746'
EL: 4990'
PDOP 1.4 | ②
DECHANT STATE 3
SW/SW SEC. 16
663' FSL, 655' FWL
LAT. N40.13299'
LONG. W104.90288'
EL: 4979'
PDOP 2.6 | ③
ALVIN STATE 1
SW/SW SEC. 16
767' FSL, 648' FWL
LAT. N40.13327'
LONG. W104.90289'
EL: 4979'
PDOP 2.0 | ④
DECHANT STATE GAS UNIT 9
SW/SW SEC. 16
918' FSL, 1005' FWL
LAT. N40.13369'
LONG. W104.90160'
EL: 4979'
PDOP 1.7 |
| ⑤
DECHANT STATE 7
NW/SW SEC. 16
1976' FSL, 462' FWL
LAT. N40.13659'
LONG. W104.90342'
EL: 4969'
PDOP 2.1 | ⑥
DECHANT STATE V16-12JI
NW/SW SEC. 16
2125' FSL, 520' FWL
LAT. N40.13700'
LONG. W104.90319'
EL: 4970'
PDOP 1.7 | ⑦
DECHANT STATE 2
NE/SW SEC. 16
1998' FSL, 1980' FWL
LAT. N40.13666'
LONG. W104.89798'
EL: 4998'
PDOP 2.0 | ⑧
DECHANT STATE V16-11JI
NE/SW SEC. 16
2088' FSL, 2171' FWL
LAT. N40.13691'
LONG. W104.89729'
EL: 4994'
PDOP 1.5 |
| ⑨
DECHANT STATE 6
SE/NW SEC. 16
1977' FNL, 1995' FWL
LAT. N40.14015'
LONG. W104.89777'
EL: 4978'
PDOP 1.9 | ⑩
STATE DECHANT 2-16
SE/NW SEC. 16
1657' FNL, 1695' FWL
LAT. N40.14104'
LONG. W104.89880'
EL: 4979'
PDOP 1.8 | ⑪
DECHANT STATE V16-5JI
SW/NW SEC. 16
2109' FNL, 488' FWL
LAT. N40.13984'
LONG. W104.90318'
EL: 4974'
PDOP 1.7 | ⑫
DECHANT STATE 1
SW/NW SEC. 16
2003' FNL, 604' FWL
LAT. N40.14013'
LONG. W104.90275'
EL: 4975'
PDOP 2.0 |
| ⑬
DECHANT STATE 9
NW/NW SEC. 16
794' FNL, 787' FWL
LAT. N40.14344'
LONG. W104.90193'
EL: 4960'
PDOP 1.6 | ⑭
DECHANT STATE V16-4JI
NW/NW SEC. 16
611' FNL, 667' FWL
LAT. N40.14395'
LONG. W104.90234'
EL: 4958'
PDOP 1.7 | ⑮
DECHANT STATE 4
NE/NW SEC. 16
660' FNL, 1976' FWL
LAT. N40.14376'
LONG. W104.89766'
EL: 4980'
PDOP 2.1 | ⑯
DECHANT STATE V16-3JI
NE/NW SEC. 16
530' FNL, 2021' FWL
LAT. N40.14412'
LONG. W104.89748'
EL: 4979'
PDOP 1.9 |



LEGEND

- ◆ FOUND MONUMENT AS DESCRIBED
- ☀ PROPOSED WELL
- EXISTING WELL
- BOTTOM HOLE
- ⊘ ABANDONED WELL

NOTES:

- 1) THIS DOES NOT REPRESENT A BOUNDARY SURVEY
- 2) THE LATITUDES AND LONGITUDES SHOWN ARE REFERENCED TO NAD83
- 3) DATUM FOR ELEVATION IS NAVD88. ELEVATIONS ARE DERIVED FROM GPS-RTK OBSERVATIONS PROCESSED THROUGH OPUS, UTILIZING THE GEOID03 MODEL.

