

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT

<b>APPLICATION FOR PERMIT TO DRILL</b>		<b>1. WELL NAME and NUMBER</b> Thorne 3-31B4
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>		<b>3. FIELD OR WILDCAT</b> ALTAMONT
<b>4. TYPE OF WELL</b> Oil Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>		<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b>
<b>6. NAME OF OPERATOR</b> EP ENERGY E&P COMPANY, L.P.		<b>7. OPERATOR PHONE</b> 713 997-5038
<b>8. ADDRESS OF OPERATOR</b> 1001 Louisiana, Houston, TX, 77002		<b>9. OPERATOR E-MAIL</b> maria.gomez@epenergy.com
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> Fee <input type="checkbox"/>	<b>11. MINERAL OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>	<b>12. SURFACE OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b> Richard Thorne		<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b> 708-203-5775
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b> 21 East Washington Street, Villa Park, IL 60181		<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>	<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>	<b>19. SLANT</b> VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	900 FSL 1400 FEL	SWSE	31	2.0 S	4.0 W	U
Top of Uppermost Producing Zone	900 FSL 1400 FEL	SWSE	31	2.0 S	4.0 W	U
At Total Depth	900 FSL 1400 FEL	SWSE	31	2.0 S	4.0 W	U

<b>21. COUNTY</b> DUCHESNE	<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 900	<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 640
<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 2600	<b>26. PROPOSED DEPTH</b> MD: 12600 TVD: 12600	
<b>27. ELEVATION - GROUND LEVEL</b> 6051	<b>28. BOND NUMBER</b> 400JU0708	<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> Duchesne City

**Hole, Casing, and Cement Information**

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Cond	20	13.375	0 - 800	54.5	J-55 LT&C	8.8	Class G	1000	1.15	15.8
Surf	12.25	9.625	0 - 4000	40.0	N-80 LT&C	9.5	35/65 Poz	560	3.16	11.0
							Premium Lite High Strength	191	1.33	14.2
I1	8.75	7	0 - 9800	29.0	P-110 LT&C	10.8	Premium Lite High Strength	378	2.31	12.0
							Premium Lite High Strength	91	1.91	12.5
L1	6.125	5	9600 - 12600	13.5	P-110 LT&C	13.5	50/50 Poz	229	1.56	14.2

**ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

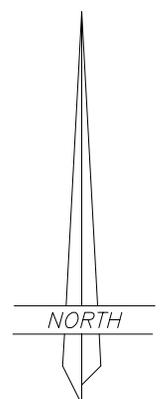
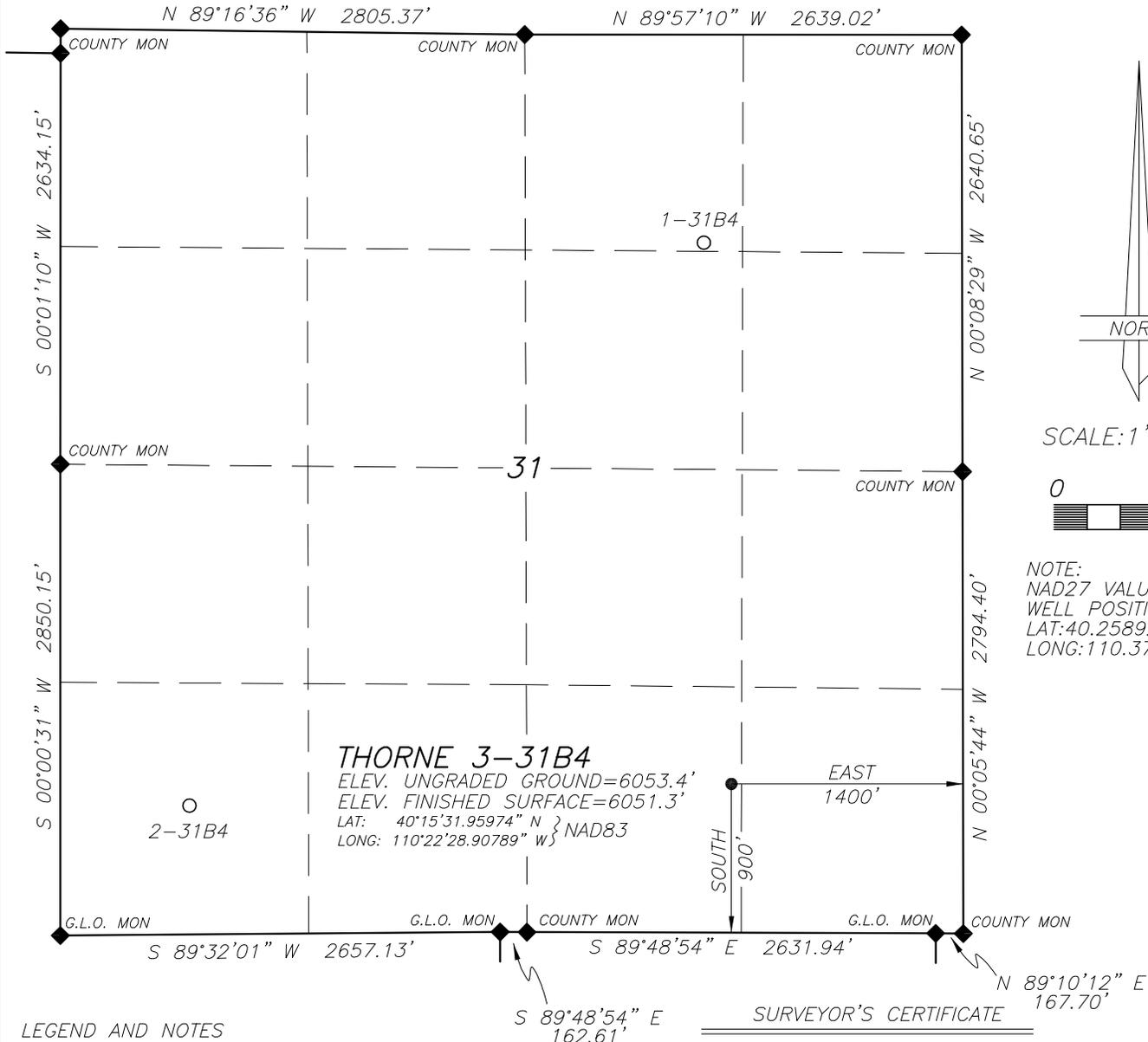
<b>NAME</b> Maria S. Gomez	<b>TITLE</b> Principal Regulatory Analyst	<b>PHONE</b> 713 997-5038
<b>SIGNATURE</b>	<b>DATE</b> 03/09/2013	<b>EMAIL</b> maria.gomez@epenergy.com
<b>API NUMBER ASSIGNED</b> 43013520860000	<b>APPROVAL</b>   Permit Manager	

# EP ENERGY E & P COMPANY, L.P.

WELL LOCATION

THORNE 3-31B4

LOCATED IN LOT 6 OF  
SECTION 31, T2S, R4W, U.S.B.&M.  
DUCHESNE COUNTY, UTAH



SCALE: 1" = 1000'



NOTE:  
NAD27 VALUES FOR  
WELL POSITION:  
LAT: 40.258921828° N  
LONG: 110.373985242° W

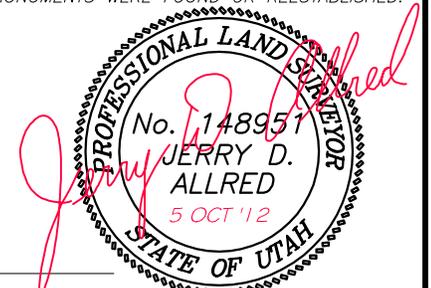
**THORNE 3-31B4**  
ELEV. UNGRADED GROUND=6053.4'  
ELEV. FINISHED SURFACE=6051.3'  
LAT: 40°15'31.95974" N } NAD83  
LONG: 110°22'28.90789" W }

**LEGEND AND NOTES**

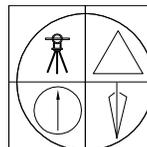
- ◆ CORNER MONUMENTS FOUND AND USED BY THIS SURVEY
- THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS AS WAS THE U.S.G.S. MAP
- THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT
- THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT THE SECTION CORNER LOCATED AT LAT. 40°15'22.90258"N AND LONG. 110°23'21.19760"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER
- BASIS OF ELEVATIONS: NAVD 88 DATUM USING THE UTAH REFERENCE NETWORK CONTROL SYSTEM

**SURVEYOR'S CERTIFICATE**

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM THE FIELD NOTES AND ELECTRONIC DATA COLLECTOR FILES OF AN ACTUAL SURVEY PERFORMED BY ME, OR UNDER MY PERSONAL SUPERVISION, DURING WHICH THE SHOWN MONUMENTS WERE FOUND OR REESTABLISHED.



JERRY D. ALLRED, PROFESSIONAL LAND SURVEYOR,  
CERTIFICATE NO. 148951 (UTAH)



**JERRY D. ALLRED & ASSOCIATES**  
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975  
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