

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

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL		1. WELL NAME and NUMBER CW-5
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>		3. FIELD OR WILDCAT UNDESIGNATED
4. TYPE OF WELL Gas Storage Well Coalbed Methane Well: NO		5. UNIT or COMMUNITIZATION AGREEMENT NAME
6. NAME OF OPERATOR MAGNUM SOLUTION MINING, LLC		7. OPERATOR PHONE 801 993-7001
8. ADDRESS OF OPERATOR 3165 E Millrock Dr, Holladay, UT, 84124		9. OPERATOR E-MAIL djetton@westernenergyhub.com
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) 51573-OBA	11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>	12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
13. NAME OF SURFACE OWNER (if box 12 = 'fee')		14. SURFACE OWNER PHONE (if box 12 = 'fee')
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')		16. SURFACE OWNER E-MAIL (if box 12 = 'fee')
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')	18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>	19. SLANT 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	147 FSL 167 FWL	SWSW	23	15.0 S	7.0 W	S
Top of Uppermost Producing Zone	147 FSL 167 FWL	SWSW	23	15.0 S	7.0 W	S
At Total Depth	147 FSL 167 FWL	SWSW	23	15.0 S	7.0 W	S

21. COUNTY MILLARD	22. DISTANCE TO NEAREST LEASE LINE (Feet) 220	23. NUMBER OF ACRES IN DRILLING UNIT 2
24. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1990	26. PROPOSED DEPTH MD: 4800 TVD: 4800	
27. ELEVATION - GROUND LEVEL 4614	28. BOND NUMBER B008001	29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 68-396

Hole, Casing, and Cement Information

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
COND	36	36	0 - 150	282.4	B Casing	0.0	No Used	0	0.0	0.0
SURF	34	30	0 - 750	234.3	B Casing	9.5	Class A	887	1.18	15.6
I1	28	24	0 - 2500	245.6	X-52 Casing	10.2	Class A	2404	1.18	15.6
I2	24	20	0 - 1800	133.0	N-80 Buttress	10.2	Class G	1393	1.24	16.3
			1800 - 3350	191.0	X-56 Casing	10.2	Class G	1200	1.24	16.3
Prod	22	16	0 - 2000	95.0	N-80 Buttress	10.4	Class G	2006	1.24	16.3
			2000 - 3450	118.0	N-80 Buttress	10.4	Class G	1454	1.24	16.3

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

NAME Tiffany A. James	TITLE Director of GR and Env Svcs	PHONE 801 993-7001
SIGNATURE	DATE 11/03/2011	EMAIL tjames@westernenergyhub.com
API NUMBER ASSIGNED 43027500020000	APPROVAL  Permit Manager	

Application for Permit to Drill Magnum Cavern Well 5

Certified Section Map and Plat Map

10/31/2011

Prepared by

Magnum

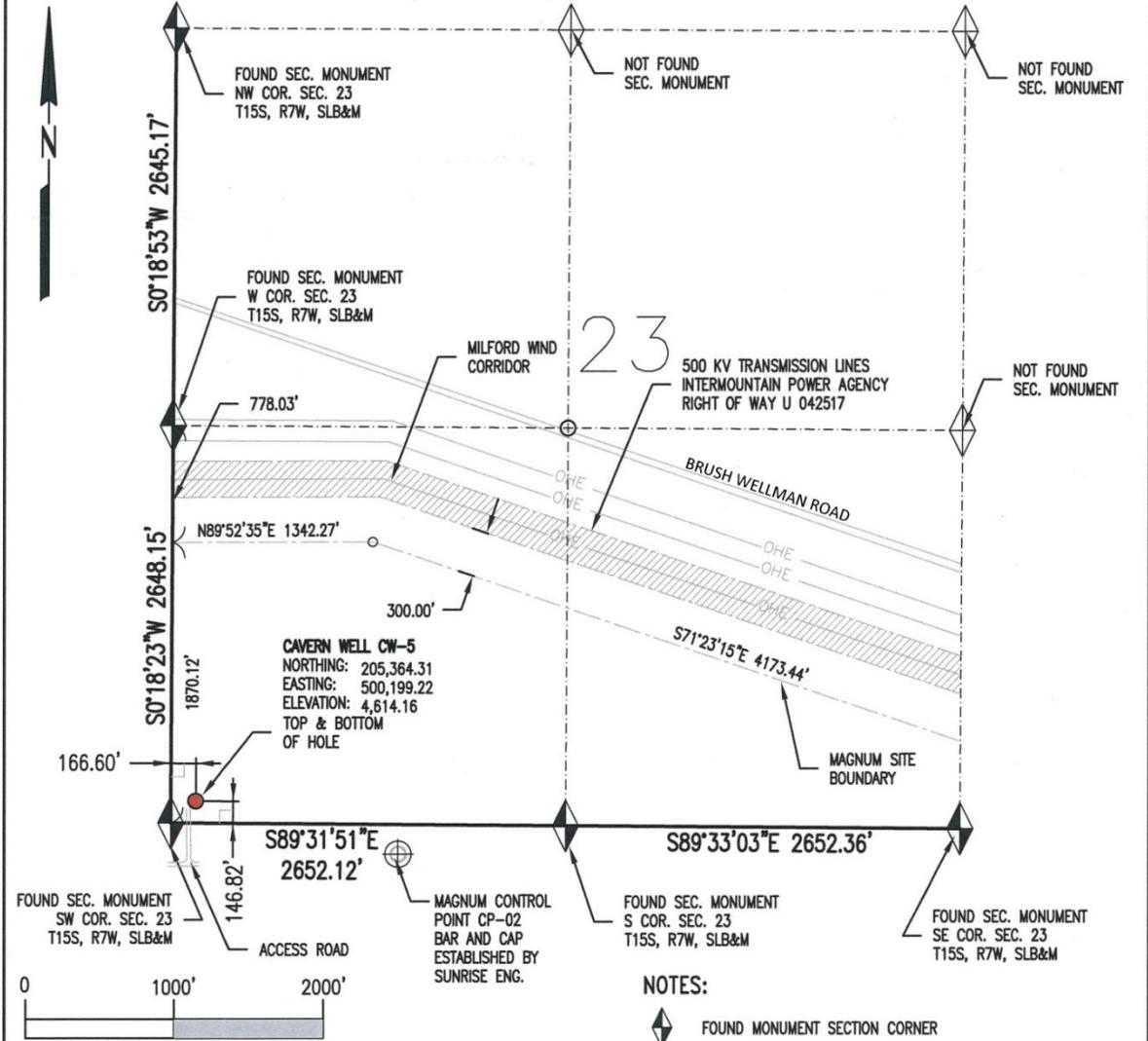
3165 E. Millrock Dr., Suite 330

Holladay, Utah 84121

Tel 801 993 7001 Fax 801 993 7025

www.westernenergyhub.com

T15S, R7W, S.L.B. & M.



ENGINEER'S CERTIFICATE

THIS IS TO CERTIFICATE THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



PROFESSIONAL ENGINEER
REGISTRATION No. 364858-2203
STATE OF UTAH

NOTES:

- 1 FOUND MONUMENT SECTION CORNER
- 1 WELL FOOTAGES ARE MEASURED AT RIGHT ANGLES TO THE SECTION LINES
- 2 BASIS OF ELEVATION IS MAGNUM CONTROL POINT MAG-CP-02

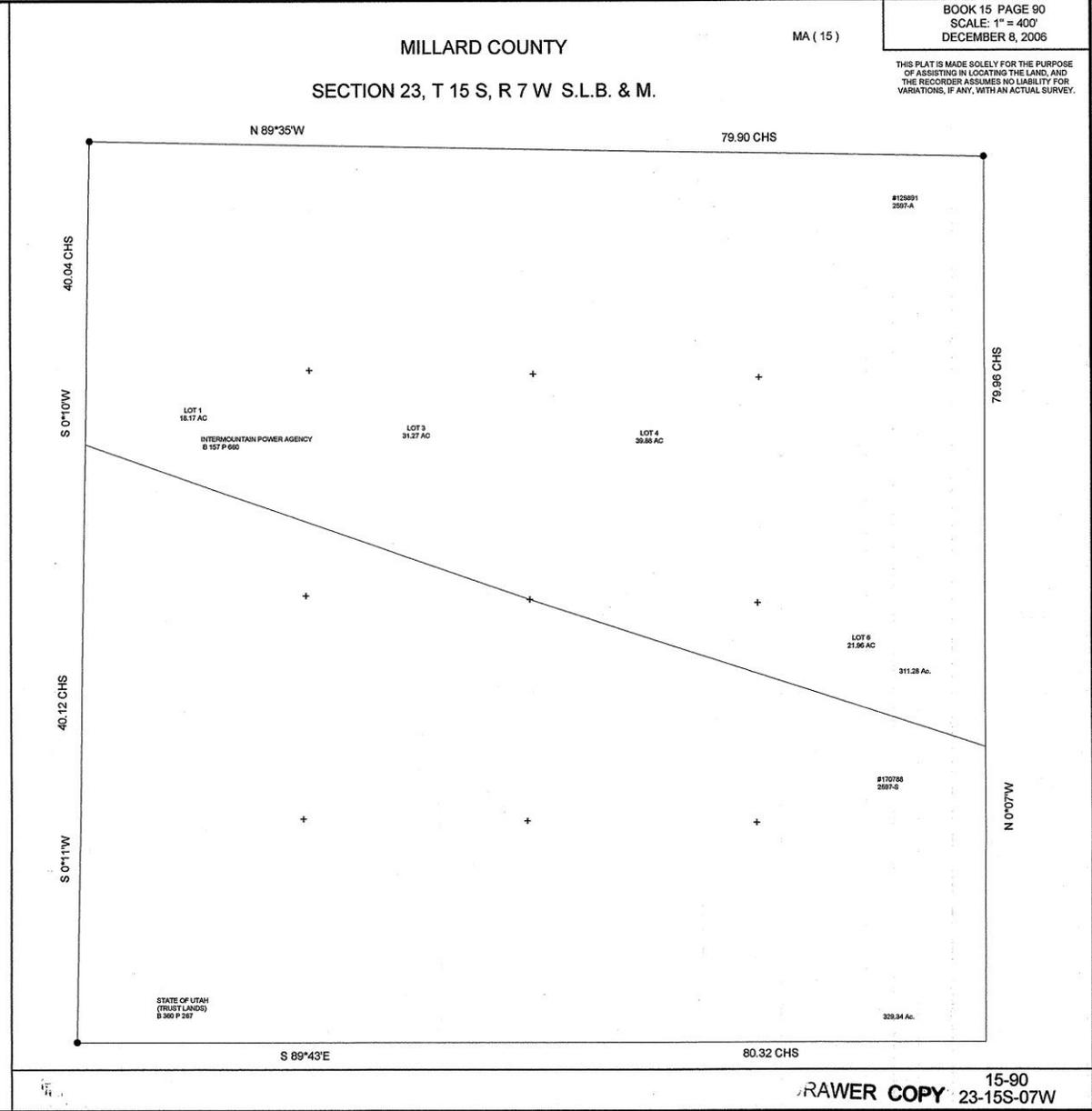
POINT NO.	NORTHING	EASTING	ELEVATION
MAG-CP-02	205,008.897	501,554.063	4,628.50
	LATITUDE	LONGITUDE	E.I. HGT.
	N39°29'37.6436"	W112°36'23.7187"	4,565.10

MAGNUM
Enabling Renewables

3165 MILLROCK DR, SUITE 330
HOLLADAY, UTAH 84121
PHONE: (801) 993-7001

DATE:	10/26/11	SURVEYED BY:	SUNRISE	SHEET NO: CW-5
DATE DRAWN:	10/26/11	DRAWN BY:	AG	
SCALE:	1"=1,000'	REVISED:	DB/TJ	

Magnum Cavern Well 5 Certified Section Map



Magnum Cavern Well 5 Plat Map