CONDITION OF APPROVAL-CANNOT dispose down wellbore until Salt Water Disposal order is approved by the OCD Santa Fe Office.

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN,

PLUGBACK, OR ADD A ZONE

Operator Name and Address

State of New Mexico Energy Minerals and Natural Resources

June 16, 2008 HOBBS Oberrio appropriate District Office

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

☐ AMENDED REPORT

Form C-101

APR 2 9 2013

RECEIVED OGRID Number

| Sundown Energy, LP | | | | | | | 232611 | | | | | |
|---|--|---|--|--|---|--|--|---|--|---|--|--|
| 13455 Noel Road, Suite 2000 Dallas, Texas 75240 | | | | | | | | ³ API Number | | | | |
| | | | Dallas, Texa | | | | | 30-025-03 | 30-025-03145 | | | |
| 3 Propo | ³ Property Code 3456439 852 | | | ⁵ Property Name | | | | | | 6 Well N | Ю | |
| <u>ੇ</u> | | | | State Lea 405 Com | | | | | | | | |
| | ° Proposed Pool 1 SWD Devonian (961 | | | | 015 | | | ¹⁰ Proposed Pool 2 | | | | |
| 7 0 6 | T | | Devonian (961 | 01) | ···· | | | | ······································ | | , | |
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| UL or lot no. | Section 27 | Township 18S | Range 35E | Lot Idn C | Feet fro | 1 | North/South line N | Feet from the 1980' | East/West line W | | County Lea | |
| 8 Proposed | Bottom F | lole Locat | ion If Different | From Surfa | nce | | | | · · · · · · · · · · · · · · · · · · · | | | |
| UL or lot no. | Section | Township | Range | Lot Idn | Feet fre | om the | North/South line | Feet from the | Eașt/Wes | t line | County | |
| Addition | al Well | Informat | ion | <u> </u> | | | | | ļ | L_ | | |
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| 11 Work Type Code E | | | Well Type Code S | | 13 Cable/Rotary Rotary | | | S | | | 3893 | |
| Lo 16 Multiple | | | 17 Proposed Depth | | Rotary 18 Formation | | | 19 Contractor | | 20 Spud Date | | |
| | Numple | | 11,883' | | Devonian | | | Contactor | | Spila Dale | | |
| | | | | | · | - | | | | | | |
| ²¹ Propos | sed Casii | ng and C | ement Progr | am | | | | | | | | |
| Hole S | | | ing Size | Casing we | ight/foot | Sett | ing Depth | Sacks of C | ement | Es | timated TOC | |
| 15 1/ | /2" | 13 | 3 3/8" | 54. | 5 | <u> </u> | 325' | 400 | | | Surface | |
| | | | 5/8" | | 36 | | .990° | 1900 | | | 31' | |
| | | 7'' | | | 23 | | .,783° | 1 st -150; 2 nd -150 | | | 8,090' | |
| 8 7/ | 8 3/4" | | | | | | 1,/83 | DV Tool @ 8,812 | | | 0,090 | |
| | | | | | | F 100 | A Cl | | | | 12(1) | |
| 1) 5 | | | 7" | 23 | | | '-Surface | 180 | | L | 4,361' | |
| | | | f this application gram, if any. Use | | | | ne data on the p | resent productive | zone and pro | oposed nev | v productive zone | |
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| | | | | | | | | als. The well w | | | | |
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| injection to | a occur in | | | | | | | | Jew 7" ca | sing will | | |
| | | to the Dev | vonian formati | on through | the open-h | ole interv | al from 11,7 | 83'-11,883'. N | | | be run from | |
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<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV

State of New Mexico

Energy, Minerals & Natural Resources Department BBS OCD

OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Santa Fe, NM 87505

APR 2 9 2013

Revised July 16, 2010 Submit one copy to appropriate District Office

Form C-102

AMENDED REPORT

SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Signature and Scal of Professional Surveyor:

Date of Survey

Certificate Number

| | DI Mumber | WEI | | CAHON A | AND ACKEA | GE DEDICA | | | | | |
|--|-----------|-----------------|-------------------------------------|------------|-------------------------------|---------------------------------------|---|--|--|--|--|
| API Number | | | | | | Pool Name | | | | | |
| 30-025-03145 Property Code | | | 96101 | | | SWD Devonian Well Number | | | | | |
| 3456439852 | | | | c | Property Name tate Lea 405 Co | Well Number | | | | | |
| OGRID No. | | 시 | | | Elevation | | | | | | |
| 232611 | | | Operator Name Sundown Energy, LP | | | | | | 3893 | | |
| | | | | | Surface Loca | ition | | I | | | |
| UL or let no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County | | |
| C | 27 | 18 South | 35 Ea | st | 660 | North | 1980 | West | Lea | | |
| | | | Bott | tom Hole I | Location If Di | fferent From | Surface | 4 | | | |
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County | | |
| Dedicated Acres Joint or Infill N/A o Allowable will be assigned to this co | | | | date Code | Order No. | lidated or a non-s | tandard unit has be | een approved by the | ne Division | | |
| 198 | 30' | 660' State Lea- | 1 | | | , , , , , , , , , , , , , , , , , , , | hereby certify that the info o the best of my knowledge owns a working interest or he proposed bottomhole by occition pursuant to a contr | DR CERTIFICA rmattin contained herein i and beinef, and than this or undeased mineral interest i cution or has a right to drive cut with an owner of such cooling agreement or a com the Division | s true and comple ganization either it the land includ I this well at this a mineral or wor) | | |

RECEIVED

State Lea 405 Com No. 1 660' FNL and 1980 FWL Section 27, T-18-S, R-35-E API # 30-025-03145 Lea County, New Mexico

Procedure to re-enter and complete as a Devonian SWD

Find casing stub below ground level. Weld and tie-back 13-3/8" surface casing and 9-5/8" intermediate casing. NU BOP's. MIRU workover unit. MIRU reverse unit and steel circulating pit. Plan on using produced Devonian water for all drilling operations. PU 8-3/4" drill bit and bit sub, 3-1/2" N-80 EUE workstring and six 4-1/2" drill collars (or equivalent). Drill out 25 sxs cmt surface plug RIH and drill out cmt retainer at 4,956'. Drill out 25 sxs cmt plug from 4,990'-5,100'. 7" casing stub is at 5,100'. POOH. RIH and with mill and dress off the top of the 7" casing stub.

PU and RIH 6.5" drill bit and six 4.5" drill collars (or equivalent). Drill out cmt inside 7" casing below the casing stub. Pressure up on casing to 300 psig and see if well holds pressure. Drill out cmt sqz perforations from 6,134' to 6,494'. If possible pressure test to see if these sqz perforations will hold pressure. (May not work if well is bleeding off below the intermediate casing shoe and 7" casing stub).

Drill out 40 sx cmt plug from 8,450'-8,685'. Drill CIBP at 11,602'. **DO NOT DRILL OUT Devonian squeezed perforations from 11,769' to 11,774'.** If well would not hold pressure across the intermediate casing shoe and the 7" casing stub. RIH w/ packer and RBP and pressure test perforations from 6,134'-6,494'.

Depending on tests on the various perforations, plan on cement squeezing the Devonian perforations 11.686'-11,722' with 125 sxs class "H" neat cmt with FLA. Cement squeeze under a cmt retainer set at 11.602'. Once the Devonian perforations are squeezed, POOH and proceed with cement squeezing the Bone Spring perforations.

Set cmt retainer at 8,550' and cement squeeze Bone Spring perforations 8,649'-8,681' with 175 sxs class "H" neat cement with FLA. POOH.

RIH w/ 7" Bowen casing bowel patch with cementing ports. RIH w/ 7" 26# J-55 casing. Tie back the 7" casing. RIH w/ cmt retainer and set retainer at 5,050°. RIH w/ 3.5" workstring and sting into cmt retainer. Mix and pump 180 sxs class "H" neat cement. Unsting from retainer. POOH.

RIH w/ 6.5" drill bit and six 4.5" drill collars. Drill out all cmt squeezed perforations. Test all squeeze perforations with reverse unit prior to drilling out the next set of squeezed perforations.

State Lea 405 Com No. 1 660' FNL and 1980 FWL Section 27, T-18-S, R-35-E API # 30-025-03145 Lea County, New Mexico

Procedure to re-enter and complete as a Devonian SWD PAGE 2

Drill out 7" casing shoe at 11,783. Deepen well 100, down to 11,883. This will deepen the well below the original Devonian Oil-Water contact at 11,790. Clean well up with Devonian water. Well may need to be dry drilled. Well will start taking fluid. Plan on securing Devonian water from offsetting Devonian producers. **Make sure the drill bit assembly is not getting "sticky".** Well may require acid-soluble LCM material (calcium carbonate).

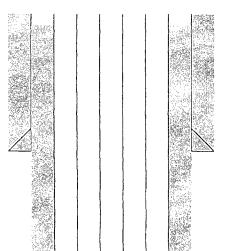
POOH. RIH w/ purchased 7" Arrow-set 1-X packer on 3.5" N-80 workstring. Set packer at 11,730'. Pressure test backside to 500 psig prior to acidizing Devonian open hole interval.

Acidize Devonian perforations with 12,000 gallons 15% NEFE HCl. Plan on pumping the acid at a high volume of 16 BPM. Start with 2,000 gallons of acid then drop 3,000 lbs of rock salt in x-linked gelled brine. Repeat process after pumping 2,000 gallons of acid. Have 20,000 lbs of rock salt on location. Have Devonian water on location to run step rate test with high-rate acid pump truck. Pump 100 bbls of Devonian water to dissolve rock salt. Proceed to pump another 200 bbls of Devonian water at various rates and pressures to establish injection rates for the subject disposal well.

POOH and LD 3.5" N-80 workstring. PU 3.5" IPC 9.3# N-80 injection tubing string. RIH w/ redressed 7" Arrow-set 1-X packer. Set packer at 11,730'. Run MIT test.' Build Lea 403 Queen-Devonian battery and injection station. Plan on running 3.5" Steel polylined injection tubing from the Lea 403 battery to the new State Lea 405 Com No. 1 SWD well.

Proposed Wellbore Configuration

Sundown Energy, L.P.
State Lea 405 Com No. 1
API No. 30-025-03145
660' FNL & 1980' FWL (Unit C)
Section 27, T-18 South, R-35 East, NMPM



15 ½" Hole; Set 13 3/8" Csg @ 325' Cemented w/400 Sx. Cement circulated to Surface

Proposed TOC @ 4,361

Queen Perforations 4,652'-4,777' Squeezed w/200 sx. Queen Perforations 4,753'-4,843'

12 '/4" Hole; Set 9 5/8" Csg @ 4,990' Cemented w/1900 sx. TOC @ 31' by Well File

Set new 7" 23# LTC casing w/Sowen casing bowl/ patch @ 5,196'. Coment w/180 sx. Class H. TOC calculated @ 4,361'

Delaware Perforations 6,134'-6,151'

Delaware Perforations 6,34'-6,340' squeezed w/75 sx. (Re-squeeze perforated interval Delaware Perforations 6,368'-6,374' from 6.134'-6,494' w/150 sx. Class H) Delaware Perforations @ 6,494 squeezed w/75 sx.

TOC @ 8,090' (Well File)

Bone Spring Perforations: 8,649'-8,681' (Squeeze w/175 Sx. Class H) DV Tool @ 8,812'

Set 3 ½" 9.3# N-80 IPC Tubing in Arrowset I-X Packer @ 11,730"

Devonian Perforations: 11,686'-11,722' (Squeeze w/175 sx. Class H)

Devonian Perforations: 11,769'-11,774'. Squeezed w/ 125 Sx.

8 3/4" Hole; Set 7" Csg. @ 11,783' 1st Stage-150 Sx. 2nd Stage-150 Sx.

DV Tool @ 8,812' TOC @ 8,090' by Well File

Deepen well to new T.D. 11,883' (Injection Interval: 11,783'-11,883' Open-Hole)