

District I
1625 N French Dr, Hobbs, NM 88240
Phone (575) 393-6161 Fax (575) 393-0720
District II
811 S First St, Artesia, NM 88210
Phone (575) 748-1283 Fax (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone (505) 334-6178 Fax (505) 334-6170
District IV
1220 S St Francis Dr, Santa Fe, NM 87505
Phone (505) 476-3460 Fax (505) 476-3462

State of New Mexico

Form C-101
Revised December 16, 2011

Energy Minerals and Natural Resources

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

Permit

HOBBS OCD

OCT 09 2012

RECEIVED

*Amended

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Basic Energy Services LP P.O. Box 10460 Midland Texas 79702		² OGRID Number 246368
		³ API Number 30 025 31888
⁴ Property Code LG-607 39193	⁵ Property Name RedHawk "32" State	⁶ Well No 1

⁷ Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
L	32	19S	34E		1980	SOUTH	810	WEST	LEA

⁸ Pool Information

SWD LOWER DELAWARE	96100
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Additional Well Information :

⁹ Work Type E	¹⁰ Well Type S	¹¹ Cable/Rotary REVERSE UNIT ROTARY	¹² Lease Type STATE	¹³ Ground Level Elevation 3643' GR
¹⁴ Multiple NO	¹⁵ Proposed Depth 7700'	¹⁶ Formation 6800' - 7600	¹⁷ Contractor BASIC ENERGY SERVICES LP	¹⁸ Spud Date 1/1/13
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

¹⁹ Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf.	17 1/2	13 3/8"	54#	525'	500	Surface
Inter	12 1/4	8 5/8"	32#	5241'	3250	Surface
Produ	7 7/8	5 1/2	17#	13.658'	1850	Surface

Casing/Cement Program: Additional Comments

Drill out plugs to 7700' run Csg Inspection log /CBL / GR Neutron Density correlation log, Perf. selected intervals, brake down with NEFE. Run SRT. Please see attachments of full operational intent.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Hydraulic Actuated	5000	5000	Townsend

I hereby certify that the information given above is true and complete to the best of my knowledge and belief

I further certify that the drilling pit will be constructed according to NMOCD guidelines XX ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Signature

Printed name David H Alvarado

Title SENM District Fluid Sales Mgr

E-mail Address. david.alvarado@basicenergyservices.com

Date

9-17-12

Phone 575 746 2072

OIL CONSERVATION DIVISION

Approved By

Title

Petroleum Engineer

Approved Date

-

Expiration Date:

OCT 09 2012

Conditions of Approval Attached

OCT 09 2012

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30 025 31888		² Pool Code 32684 96100		³ Pool Name SWD Delaware	
⁴ Property Code LG-007 39193		⁵ Property Name RedHawk "32" State			⁶ Well Number 1
⁷ OGRID No. 246368		⁸ Operator Name Basic Energy Services LP			⁹ Elevation 3643' GR

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from th	North/South line	Feet from the	East/West line	County
L	32	19S	34E		1980	SOUTH	810	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

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	Consolidation Code	Order No.

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16					<p>¹⁷ OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division</i></p> <p>Signature <u>David H Alvarado</u> Date <u>9-18-12</u></p> <p>DAVID H ALVARADO Printed Name</p> <p>david.alvarado@basicenergyservices.com E-mail Address</p>
					<p>¹⁸ SURVEYOR CERTIFICATION</p> <p><i>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</i></p> <p>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor _____</p> <p>Certificate Number _____</p>

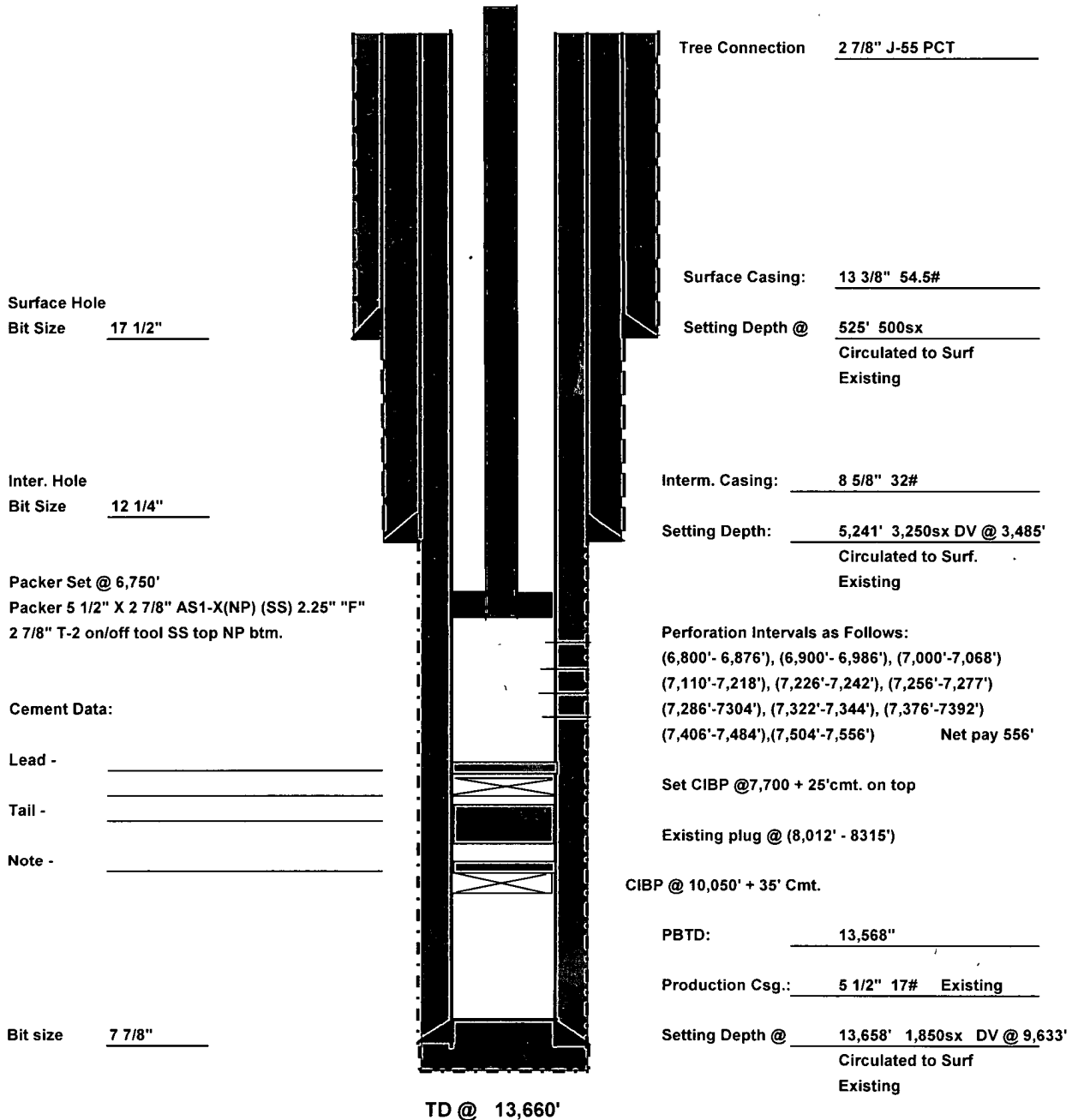
Proposed

Basic Energy Services LP

Red Hawk 32 State # 1

1980' FSL, 810' FWL, Unit (L), Sec 32, T19S, R34E Lea Co.

API # 30-025-31888



IX Proposed Stimulation Program

Basic Energy Services LP
RedHawk 32 State # 1
API 3002531888 Lea Co.

Basic Energy Services LP Proposes to clean out well bore to 7700', Circulate hole twice its capacity until a clean return is seen. Run a CIL, CBL, Correlation DIN, GR Neutron Log. Set CIBP w/wire line at 7,700'w/25'cmt. on top. In conjunction with the CIBP the existing plug that was set during P&A @ 8012'-8315' will insure as a barrier above the Bone Springs.

(3rd Stage Set RBP @ 7090' Pkr. @ 6750')

Tubing subs will be required totaling 32' of combination of 2 7/8" 8rd.

A packer will be run to a depth of 7600', set Pkr. then test integrity of cmt. plug and casing if okay, move Pkr. to 6700', Set Pkr. MIT on annulus to 500 psi. and record findings. If fail MIT notify OCD find where leak is and record, plan squeeze and submit C-103 to OCD for approval then execute approved intent, proceed with MIT and test to 500 psi submit C-103 subsequent report.

Perforate intervals as reported on C-108 run packer and retrievable plug. RedHawk 32 # 1 will be treated in three stages possible two shots per foot.

Start pad with 10# quality brine establish rate switch to acid. 32 gal NEFE 15 % per perf hole & possible use of 15 gal per perforation hole of CLO2 using three to five pounds of rock salt per perf as block. Followed by flush.

(1st Stage Set RBP @ 7580' Pkr @ 7250')

(2^{sd} Stage Set RBP @ 7250' Pkr. @ 7090')

RedHawk 32 State # 1 **Stimulation Interval Plan**

<i>INTERVALS</i> <i>Stage 1</i>	<i>NET PAY</i>	<i>SPF</i>	<i>PERF</i> <i>HOLES</i>	<i>NEFE 15%</i> <i>gal / shot.</i>	<i>Net gal</i> <i>NEFE /</i> <i>Interval</i>	<i>Net 1bls/</i> <i>Salt block</i> <i>@ 4 lbs per</i> <i>hole</i>
7256-7277	16	4	64	25	1600	256
7286-7304	18	4	72	25	1800	288
7322-7344	22	4	88	25	2220	352
7376-7392	16	4	64	25	1600	256
7406-7484	78	4	312	25	7800	1248
7504-7556	52	4	208	25	5200	832
Totals Stage 1	202		1464		33,220	3,232
<i>INTERVALS</i> <i>Stage 2</i>	<i>NET PAY</i>	<i>SPF</i>	<i>PERF</i> <i>HOLES</i>	<i>NEFE 15%</i> <i>gal / shot.</i>	<i>Net gal</i> <i>NEFE /</i> <i>Interval</i>	<i>Net 1bls/</i> <i>Salt block</i> <i>@ 4 lbs per</i> <i>hole</i>
7110-7218	108	4	432	25	10,800	1728
7226-7242	16	4	64	25	1600	256
Totals Stage 2	124		992		12,400	1984
<i>INTERVALS</i> <i>Stage 3</i>	<i>NET PAY</i>	<i>SPF</i>	<i>PERF</i> <i>HOLES</i>	<i>NEFE 15%</i> <i>gal / shot.</i>	<i>Net gal</i> <i>NEFE /</i> <i>Interval</i>	<i>Net 1bls/</i> <i>Salt block</i> <i>@ 4 lbs per</i> <i>hole</i>
6800-6876	76	4	304	25	7600	1216
6900-6986	86	4	344	25	8600	1376
7000-7068	68	4	272	25	6800	1088
Totals Stage 3	230		1840		46,000	3680

Basic Energy Services LP will be utilizing at the RedHawk 32 State # 1 a total of 556' net pay in the Delaware.