

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
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
Revised July 18, 2013

HOBBS
NOV 09 2015
RECEIVED

☐ AMENDED REPORT

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

1. Operator Name and Address Apache Corporation: 303 Veterans Airpark Lane, Suite 1000 Midland, TX 79705		2. OGRID Number 873
3. Property Code 23118		4. API Number 30-025-06382
5. Property Name Taylor Glenn		6. Well No. 003

7. Surface Location

UL - Lot I (A)	Section 3	Township 21S	Range 37E	Lot Idn 9	Feet from 3546	N/S Line N	Feet From 330	E/W Line E	County Lea
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8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
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9. Pool Information

Pool Name Eunice; Blinebry-Tubb-Drinkard	Pool Code 22900
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Additional Well Information

11. Work Type P	12. Well Type O	13. Cable/Rotary	14. Lease Type P	15. Ground Level Elevation 3493'
16. Multiple No	17. Proposed Depth 7050' (PBSD)	18. Formation B-T-D	19. Contractor	20. Spud Date Upon approval
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. 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"	48#	219'	250	Surf
Prod	11"	8-5/8"	32#	3150'	1700	Surf
Liner	7-7/8"	5-1/2"		8102'	870	

Casing/Cement Program: Additional Comments

Procedure, proposed perforations and WBD's attached. Plan to Unitize and rename in the Northeast Drinkard Unit upon completion.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer

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

I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☐, if applicable.

Signature: *Reesa Fisher*

Printed name: Reesa Fisher

Title: Sr Staff Reg Analyst

E-mail Address: Reesa.Fisher@apachecorp.com

Date: 11/5/2015

Phone: (432) 818-1062

OIL CONSERVATION DIVISION

Approved By:

Title: *Petroleum Engineer*

Approved Date: *11/21/15* Expiration Date: *11/21/17*

Conditions of Approval Attached

NOV 23 2015

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Proposed Workover Procedure: Reactivate Well and Recomplete in the Blinebry, Tubb, and Drinkard Formations

- Day 1/2:** MIRU. NU BOPs. PU and RIH w/ 2-7/8" L-80 work string and bit to +/-5,565'. DO cement and plug. Cont. to RIH w/ 2-7/8" work string and bit to TFF at +/- 7,015'. POOH w/ 2-7/8" work string and bit.
RIH w/scrapper on 2-7/8" work string to +/- 6,800'. POOH w/scrapper and LD 2-7/8" work string.
- Day 3:** RU WL. RIH w/WL and perforate Stage 1 according to the attached sheet w/ 3-1/8" SDP charges @ 1 SPF, 180 degree phasing (total 25 feet, 25 shots), POOH and RD WL.
PU and RIH w/treating packer and RBP on 3-1/2" L-80 work string while pressure testing to 7,500 psig. Set RBP @ 6,800'. Spot acid across perforations. PUH and set packer @ +/-6,550'.
- Day 4:** MIRU frac equipment. Acidize Stage 1 perforations w/3,000 gals 15% HCl and ball sealers @ +/-10 BPM. Release packer and run through perfs to knock off balls. PUH and re-set packer @ +/-6550'
Frac Stage 1 w/135,000 lbs 20/40 proppant down 3-1/2" tubing @ 35 – 40 BPM (pressure permitting, max pressure is 7,500 psi) in 25# XL gel as per frac program
SWI until pressure bleeds off.
- Day 5:** Release packer and wash sand to retrieve RBP. PU and set RBP @ +/- 6,490'. POOH w/ 3-1/2" tubing and packer.
MIRU WL. Perforate Stage 2 according to the attached sheet w/ 3-1/8" SDP charges @ 1 SPF, 180 degree phasing (total 25 feet, 25 shots), POOH and RD WL
PU and RIH w/treating packer on 3-1/2" work string. Spot acid across perforations. PUH and set packer @ +/- 6,130'
- Day 6:** Acidize the Stage 2 perforations w/ 3,000 gals 15% HCl and ball sealers @ +/- 10 BPM. Release packer and run through perfs to knock off balls. PUH and re-set packer @ +/-6,130'
Frac Stage 2 w/125,000 lbs 20/40 proppant down 3-1/2" tubing @ 35 – 40 BPM (pressure permitting, max pressure is 7,500 psi) in 25# XL gel as per frac program
SWI until pressure bleeds off, release packer and was sand to retrieve RBP. POOH w/ 3-1/2" work string, packer and RBP.
- Day 7:** RIH w/ 2-7/8" production tubing to +/- 6,830'.
- Day 8:** RIH w/ 1-1/2" pump and rods. Transfer 640 Pumping Unit to site. Place well on production. Place well in test.

Proposed Perforations

Taylor Glenn #3 Proposed Perforations						
Guns: 3-1/8" slick guns w/ SDP Charges						
Stage	Zone	Top	Bottom	Feet	SPF	Shots
1	Drinkard	6580	6581	2	1	2
1	Drinkard	6599	6600	2	1	2
1	Drinkard	6644	6645	2	1	2
1	Drinkard	6651	6652	2	1	2
1	Drinkard	6666	6667	2	1	2
1	Drinkard	6680	6682	3	1	3
1	Drinkard	6694	6695	2	1	2
1	Drinkard	6705	6706	2	1	2
1	Drinkard	6725	6726	2	1	2
1	Drinkard	6743	6744	2	1	2
1	Drinkard	6762	6763	2	1	2
1	Drinkard	6770	6771	2	1	2
Total				25		25

Stage	Zone	Top	Bottom	Feet	SPF	Shots
2	Blinebry	6160	6161	2	1	2
2	Blinebry	6178	6179	2	1	2
2	Blinebry	6196	6198	3	1	3
2	Blinebry	6232	6234	3	1	3
2	Tubb	6301	6302	2	1	2
2	Tubb	6317	6319	3	1	3
2	Tubb	6339	6340	2	1	2
2	Tubb	6352	6353	2	1	2
2	Tubb	6366	6367	2	1	2
2	Tubb	6385	6386	2	1	2
2	Tubb	6411	6412	2	1	2
Total				25		25

Proposed Pump Schedule

Taylor Glenn #3 Pump Schedule - Maximum Pressure = 7,500 psia - STAGE 1

Stage No	Clean Vol (bbls)	Clean Vol (gal)	Slurry Rate (bpm)	Prop Conc (ppg)	Stage Prop (lbs)	Cumul Prop (lbs)	Slurry Vol (bbls)	Stage Time (mins)	Cumul Job Time (mins)	Fluid	Stage Description	Proppant
1	71	3,000	10	0.00	0	0	71	7.1	7.1	15% HCl	Acid Ball	
2	65	2,730	15	0.00	0	0	65	4.3	11.5	KCl	Flush	
3	48	2,000	30	0.00	0	0	48	1.6	13.1	15% HCl	Acid Spear	
4	600	25,200	40	0.00	0	0	600	15.0	28.1	25# XL	Pad	
5	238	10,000	40	0.50	5,000	5,000	243	6.1	34.2	25# XL	Main frac slurry	20/40 White
6	238	10,000	40	1.00	10,000	15,000	249	6.2	40.4	25# XL	Main frac slurry	20/40 White
7	179	7,500	40	2.00	15,000	30,000	195	4.9	45.2	25# XL	Main frac slurry	20/40 White
8	198	8,333	40	3.00	25,000	55,000	225	5.6	50.9	25# XL	Main frac slurry	20/40 White
9	208	8,750	40	4.00	35,000	90,000	247	6.2	57.0	25# XL	Main frac slurry	20/40 White
10	268	11,250	40	4.00	45,000	135,000	329	8.2	65.3	25# XL	Main frac slurry	20/40 Coolset
11	58	2,436	40	0.00	0	135,000	58	1.5	66.7	Linear Gel	Flush (Top Perf)	
TOTAL LOAD	2,171	91,199			TOTAL PROP:	135,000	2,330					

Taylor Glenn #3 Pump Schedule - Maximum Pressure = 7,500 psia - STAGE 2

Stage No	Clean Vol (bbls)	Clean Vol (gal)	Slurry Rate (bpm)	Prop Conc (ppg)	Stage Prop (lbs)	Cumul Prop (lbs)	Slurry Vol (bbls)	Stage Time (mins)	Cumul Job Time (mins)	Fluid	Stage Description	Proppant
1	71	3,000	10	0.00	0	0	71	7.1	7.1	15% HCl	Acid Ball	
2	60	2,520	15	0.00	0	0	60	4.0	11.1	KCl	Flush	
3	48	2,000	30	0.00	0	0	48	1.6	12.7	15% HCl	Acid Spear	
4	600	25,200	40	0.00	0	0	600	15.0	27.7	25# XL	Pad	
5	238	10,000	40	0.50	5,000	5,000	243	6.1	33.8	25# XL	Main frac slurry	20/40 White
6	238	10,000	40	1.00	10,000	15,000	249	6.2	40.0	25# XL	Main frac slurry	20/40 White
7	179	7,500	40	2.00	15,000	30,000	195	4.9	44.9	25# XL	Main frac slurry	20/40 White
8	198	8,333	40	3.00	25,000	55,000	225	5.6	50.5	25# XL	Main frac slurry	20/40 White
9	179	7,500	40	4.00	30,000	85,000	211	5.3	55.8	25# XL	Main frac slurry	20/40 White
10	238	10,000	40	4.00	40,000	125,000	292	7.3	63.1	25# XL	Main frac slurry	20/40 Coolset
11	54	2,268	40	0.00	0	125,000	54	1.4	64.5	Linear Gel	Flush (Top Perf)	
TOTAL LOAD	2,103	88,321			TOTAL PROP:	125,000	2,249					

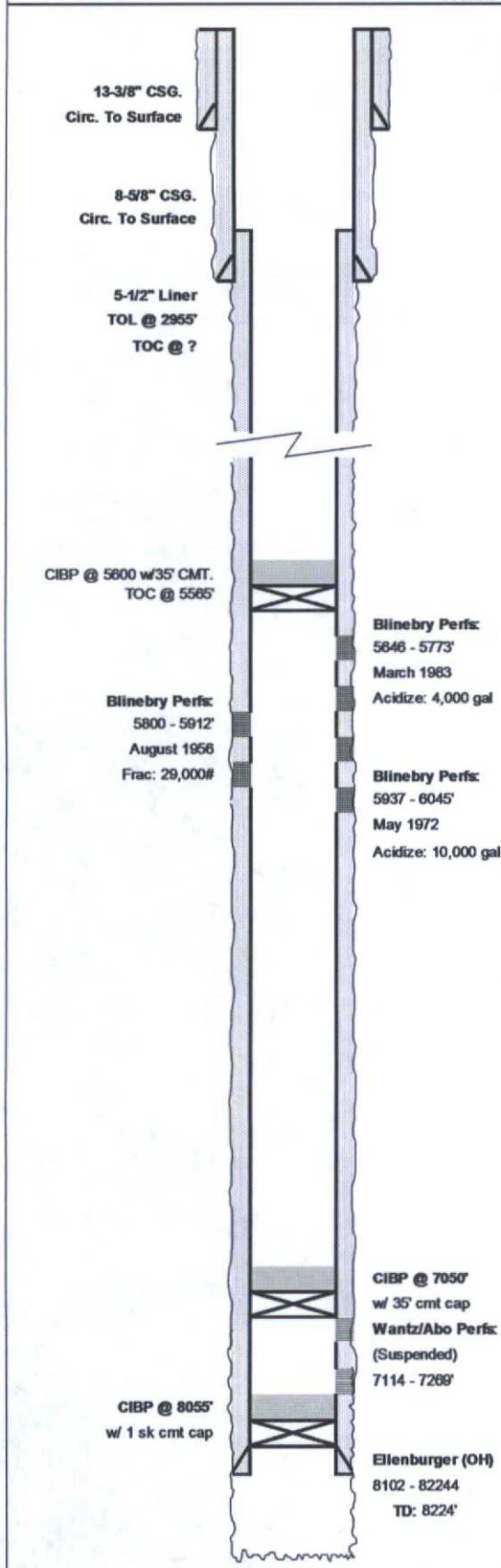
Current Wellbore Diagram

Apache Corporation

Taylor Glenn #3



WELL DIAGRAM (CURRENT CONFIGURATION)



WELL NAME:		Taylor Glenn #3		API:		30-025-06382	
LOCATION:		3546' FNL & 330' FEL Sec 3 T21S R37E		COUNTY:		Lea Co., NM	
SPUD/TD DATE:		11/11/1951 - 1/3/1952		COMP. DATE:		1/9/1952	
PREPARED BY:		Bret Shapolt		DATE:		10/15/2015	
TD (ft): 8224'		KB Elev. (ft): 3494'		KB to Ground (ft) 11'			
PBTD (ft): 5565'		Ground Elev. (ft): 3483'					
CASING/TUBING		SIZE (IN)	WEIGHT (LB/FT)	GRADE		DEPTHS (FT)	
Surface Casing		13-3/8" (Cmt w/ 250sx, Circ)	48.00	H-40		0.0	219.0
Int. Casing		8-5/8" (Cmt w/ 2000sx, Circ)	32.00	J-55		0.0	3,150.0
Prod. Liner		5-1/2" (Cmt w/ 870sx, Circ)	15.5/17	J-55		2,955.0	8,102.0
Open Hole						8,102.0	8,224.0
PRODUCTION TBG STRING							
ITEM	DESCRIPTION					LENGTH (FT)	Depth (FT)
1							
2							
3							
4							
5							
PRODUCTION ROD STRING							
ITEM	DESCRIPTION					LENGTH (FT)	Btm (FT)
1							
2							
3							
4							
5							
6							
SURFACE EQUIPMENT							
PUMPING UNIT SIZE:				MOTOR HP:			
PUMPING UNIT MAKE:				MOTOR MAKE:			
PERFORATIONS							
Form.	Intervals					FT	SPF
Blinebry Sqz. w 300sx 12/1985	5806-32', 40-50', 92-5918'					65	4
	5937', 45', 50', 54', 96', 6003', 11', 16', 31', 37', 40', 45'					12	1
	5646, 53', 55', 58', 61', 63', 68', 73', 80', 83', 87', 92', 97', 5701', 07', 13', 18', 23', 32', 35', 44', 51', 58', 64', 71', 73'					26	1
Abo	(Suspended) 7114, '21', 34', 35', 36', 44', 48', 63', 70', 85', 7221', 29', 35', 49', 69'					15	4
Ellenburger	(Suspended) 8102-8224'					122	OH

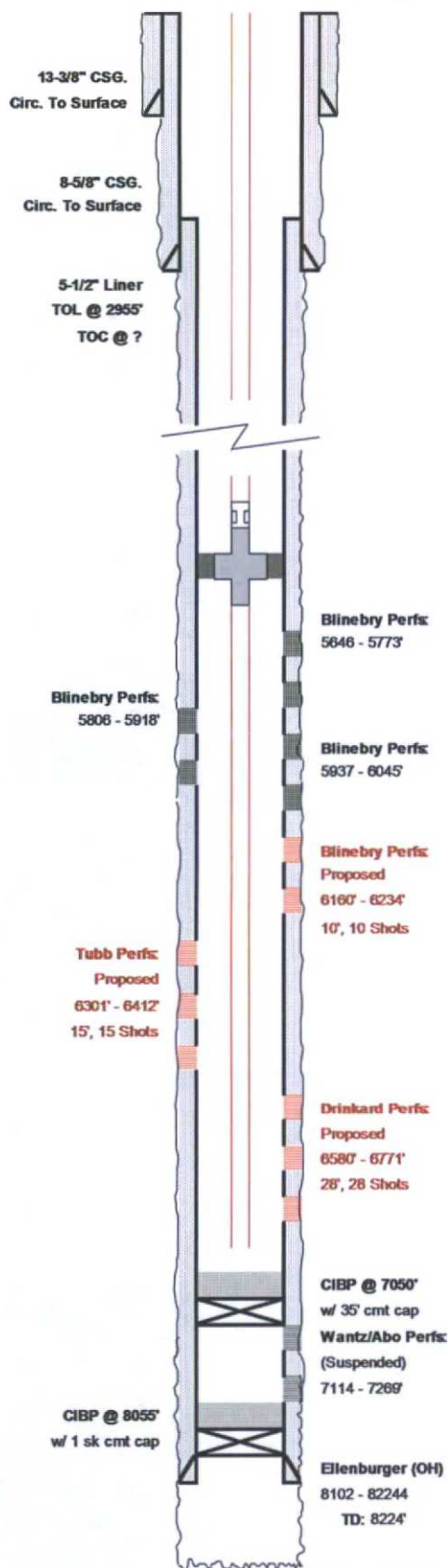
Proposed Wellbore Diagram

Apache Corporation

Taylor Glenn #3



WELL DIAGRAM (PROPOSED CONFIGURATION)



WELL NAME:		Taylor Glenn #3		API:		30-025-06382	
LOCATION:		3546' FNL & 330' FEL Sec 3 T21S R37E		COUNTY:		Lea Co., NM	
SPUD/TD DATE:		11/11/1951 - 1/3/1952		COMP. DATE:		1/9/1952	
PREPARED BY:		Bret Shapot		DATE:		10/15/2015	
TD (ft): 8224'		KB Elev. (ft): 3494'		KB to Ground (ft)		11'	
PBTD (ft): 5565'		Ground Elev. (ft): 3483'					
CASING/TUBING	SIZE (IN)	WEIGHT (LB/FT)	GRADE	DEPTHS (FT)			
Surface Casing	13-3/8" (Cmt w/ 250sx, Circ)	48.0	H-40	0.0	219.0		
Int. Casing	8-5/8" (Cmt w/ 2000sx, Circ)	32.0	J-55	0.0	3,150.0		
Prod. Liner	5-1/2" (Cmt w/ 870sx, Circ)	15.5/17.0	J-55	2,955.0	8,102.0		
Open Hole				8,102.0	8,224.0		
PRODUCTION TBG STRING							
ITEM	DESCRIPTION			LENGTH (FT)	Depth (FT)		
1	220 JTS 2-7/8" 6.5# J-55 TBG						
2	TAC						+/-5550
3	SN						+/-6830
4							
5							
PRODUCTION ROD STRING							
ITEM	DESCRIPTION			Count (Jts)	Length (FT)		
1	1" KD RODS			75	1,875.00		
2	7/8" KD RODS			83	2,075.00		
3	3/4" KD RODS			50	1,250.00		
4	3/4" KD GUIDED RODS			55	1,375.00		
5	1-1/2" K-BARS			10	250.00		
6	BHP: 2" X 1 1/2" X 24' RHBC			1	24.00		
SURFACE EQUIPMENT							
PUMPING UNIT SIZE:				MOTOR HP:			
PUMPING UNIT MAKE:				MOTOR MAKE:			
PERFORATIONS							
Form.	Intervals			FT	SPF		
Blinebry Sqz. w 300sx 12/1985	5806-32', 40-50', 92-5918'			65	4		
	5937', 45', 50', 54', 96', 6003', 11', 16', 31', 37', 40', 45'			12	1		
	5646, 53', 55', 58', 61', 63', 68', 73', 80', 83', 87', 92', 97', 5701', 07', 13', 18', 23', 32', 35', 44', 51', 58', 64', 71', 73'			26	1		
Blinebry	6160', 61', 78', 79', 96', 97', 98', 32', 33', 34'			10	1		
Tubb	6301', 02', 17', 18', 19', 39', 40', 52', 53', 66', 67', 85', 86', 6411', 12'			15	1		
Drinkard	6580', 81', 99', 6600', 44', 45', 51', 52', 66', 67', 80', 81', 82', 94', 95', 6705', 06', 25', 26', 43'-44', 62', 63', 70', 71'			25	1		
Abo	(Suspended) 7114', 21', 34', 35', 36', 44', 48', 63', 70', 85', 7221', 29', 35', 49', 69'			15	4		
Ellenburger	(Suspended) 8102-8224'			122	OH		

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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 October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-06382	² Pool Code 22900	³ Pool Name Eunice; Blinebry-Tubb-Drinkard
⁴ Property Code 23118	⁵ Property Name Taylor Glenn	⁶ Well Number 003
⁷ OGRID No. 873	⁸ Operator Name Apache Corporation: 303 Veterans Airpark Lane, Suite 1000 Midland, TX 79705	⁹ Elevation 3493' GL

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1 (A)	3	21S	37E	9	3546	North	330	East	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

¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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				¹⁷ OPERATOR CERTIFICATION 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>Reesa Fisher</i> 11/05/2015 Signature Date Reesa Fisher Printed Name
				¹⁸ 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. Date of Survey Signature and Seal of Professional Surveyor:
				Certificate Number